

# WTG Performance Assessment

Date Period

2022-23

State,District,Site,Sec...

Multiple selections

Customer Name

All

WTG Model

All

Turbine Code

All

## WTG Performance Assessment Report

Site

🔍

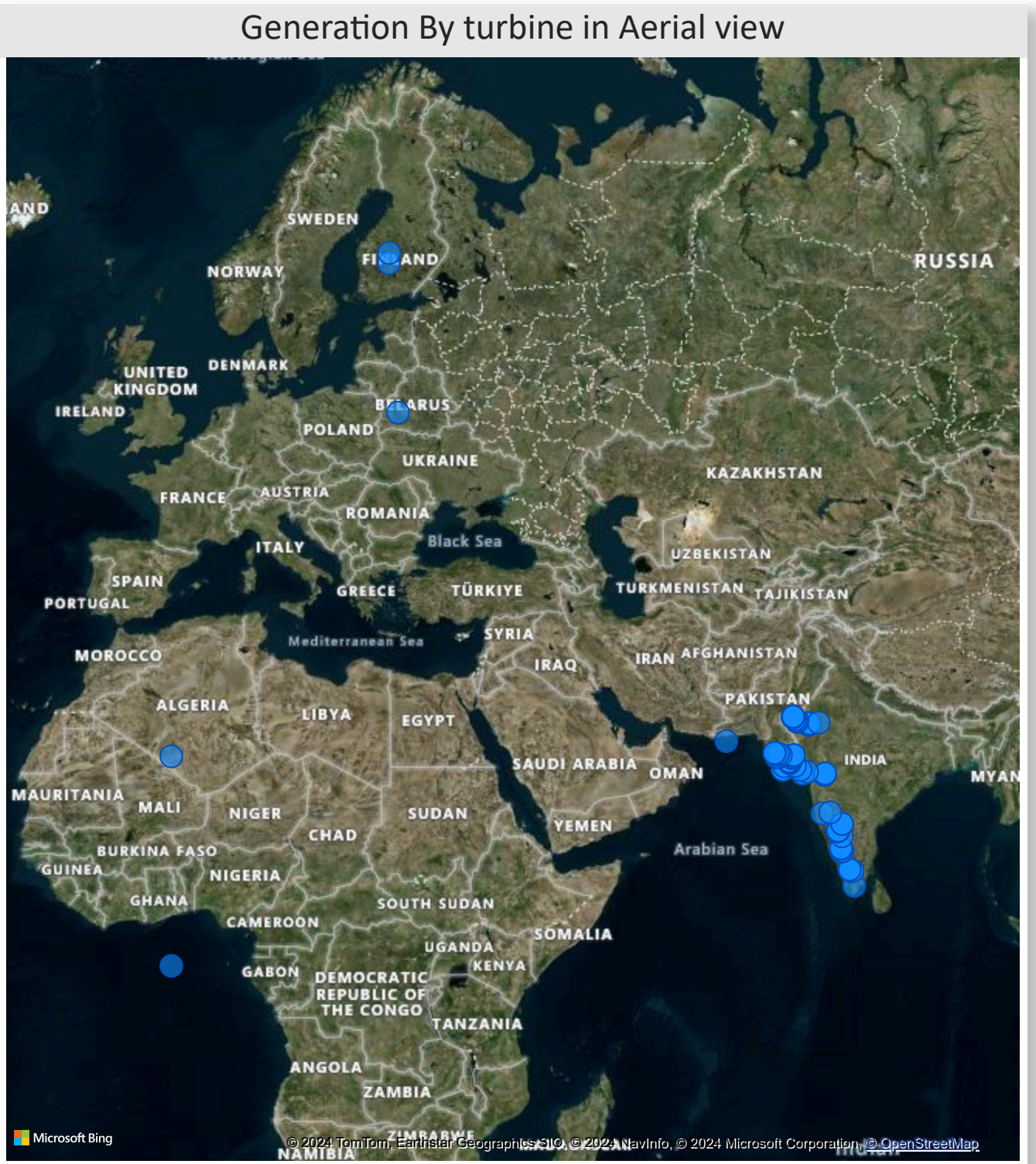
: WTG No.

🔍

: WTG Model

🔍

state	site	OEM	WTG Capacity	No. of WTGs	Total MW
GJ - Kutch	Amaliara	SUZLON	1.50	2	3.00
GJ - Kutch	Arikhana	SUZLON	1.50	2	3.00
GJ - Kutch	Changadai	SUZLON	1.25	1	1.25
GJ - Kutch	Kadoli	SUZLON	1.25	1	1.25
GJ - Kutch	Kadoli	SUZLON	1.50	7	10.50
GJ - Kutch	Kosa	SUZLON	2.10	2	4.20
GJ - Kutch	Nanisindhodi	SUZLON	1.25	1	1.25
GJ - Kutch	Nanisindhodi	SUZLON	1.50	3	4.50
GJ - Kutch	Rampar	SUZLON	2.10	1	2.10
GJ - Kutch	Shikarpur	SUZLON	1.50	5	7.50
GJ - Kutch	Suthari	SUZLON	0.60	1	0.60
GJ - Kutch	Suthari	SUZLON	1.25	1	1.25
GJ - Kutch	Suthari	SUZLON	1.50	10	15.00
GJ - Kutch	Ukheda	SUZLON	2.10	2	4.20
GJ - Kutch	Vayor	SUZLON	2.10	17	35.70
GJ - Saurashtra	Amaliara	SUZLON	1.50	1	1.50
GJ - Saurashtra	Bhanvad	SUZLON	2.10	5	10.50
GJ - Saurashtra	Jamjodhpur	SUZLON	2.10	3	6.30
GJ - Saurashtra	Jodiya	SUZLON	2.10	7	14.70
GJ - Saurashtra	Kuchhadi	SUZLON	1.25	1	1.25
GJ - Saurashtra	Kuchhadi	SUZLON	2.10	2	4.20
GJ - Saurashtra	Mahidad	SUZLON	2.10	2	4.20
GJ - Saurashtra	Maliya Miyana	Pioneer	1.50	1	1.50
GJ - Saurashtra	Maliya Miyana	SUZLON	1.50	6	9.00
GJ - Saurashtra	Maliya Miyana	SUZLON	2.10	5	10.50
GJ - Saurashtra	Modpar	SUZLON	2.10	15	31.50
GJ - Saurashtra	Modpar	SUZLON	2.60	4	10.40
GJ - Saurashtra	Motagunda	GAMESA	0.85	1	0.85
GJ - Saurashtra	Ratdi	SUZLON	2.10	5	10.50
GJ - Saurashtra	Sanodar	SUZLON	2.10	2	4.20
GJ - Saurashtra	Sardhar	SUZLON	2.10	1	2.10
GJ - Saurashtra	Suvarada	SUZLON	2.10	1	2.10
Karnataka	CHI12MW	GAMESA	2.00	1	2.00
Karnataka	Hassan	SUZLON	1.50	5	7.50





# WTG Performance Assessment



Date Period

2023-24

Past Period

Multiple selections

State,District,Site,Sec...

All

Customer Name

All

WTG Model

All

Turbine Code

AK163

## WTG Performance Assessment Report

Site

:

Shirwa

WTG No.

:

AK163

WTG Model

:

S 66 Mark II

Past Performance	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
FY_2017-18_ Actual gen. (LU)	1.72	1.96	2.50	1.97	2.08	0.77	0.37	0.32	0.71	0.32	0.39	0.63	13.74
FY_2018-19_ Actual gen. (LU)	1.29	1.35	2.54	2.16	2.11	1.45	0.42	0.24	0.44	0.48	0.61	0.74	13.81
FY_2019-20_ Actual gen. (LU)	1.04	1.55	1.78	3.83	1.43	0.79	0.38	0.82	0.63	0.67	0.72	0.86	14.49
FY_2020-21_ Actual gen. (LU)	1.10	1.73	2.24	2.13	1.34	0.61	0.46	0.46	0.75	0.59	0.39	0.97	12.75
FY_2021-22_ Actual gen. (LU)	0.93	1.74	2.83	2.66	2.45	0.62	0.76	0.38	0.44	0.31	0.49	0.86	14.47

Performance in Glance FY_2023-24	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	YTD
Estimated gen. (LU)	0.98	1.97	2.30	1.43	3.01	0.95	1.01	0.42	0.00	0.00	0.00	0.00	12.06
Actual gen. (LU)	0.84	1.57	2.05	1.33	2.89	0.85	0.92	0.37	0.00	0.00	0.00	0.00	10.81
Estimated Vs. Actual (%)	-14.7%	-20.2%	-10.9%	-6.8%	-4.1%	-10.6%	-9.0%	-12.2%	-	-	-	-	-10.4%
Total Loss (%)	14.7%	20.2%	10.9%	6.8%	4.1%	10.6%	9.0%	12.2%	-	-	-	-	10.4%
1) Scheduled Outages (%)	2.3%	-	-	-	-	0.8%	-	5.2%	-	-	-	-	0.4%
1.1. WTG PM	2.3%	-	-	-	-	0.8%	-	3.8%	-	-	-	-	0.4%
1.2. Internal Grid PM	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3. PSS PM	-	-	-	-	-	-	-	1.4%	-	-	-	-	0.0%
2) Un Scheduled Outages (%)	10.5%	14.5%	5.0%	2.5%	2.4%	6.4%	7.1%	7.3%	-	-	-	-	6.4%
2.1. Lubrication System	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2. DFIG/ Converter/ Turbine Electrical System/ SFS System	-	-	-	0.8%	1.3%	-	0.1%	-	-	-	-	-	0.4%
2.3. Gear Box System	-	-	-	-	-	-	-	1.2%	-	-	-	-	0.0%
2.4. Generator System	-	-	-	-	-	-	-	-	-	-	-	-	-
2.5. Main Bearing	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6. Pitch System	2.4%	9.2%	2.6%	-	-	-	4.8%	-	-	-	-	-	2.6%
2.7. Yaw System	-	-	-	-	-	-	-	-	-	-	-	-	-
2.8. Vibration & Oscillation	-	-	-	-	-	-	-	-	-	-	-	-	-
2.9. Turbine Rotor System	-	-	-	-	-	-	-	-	-	-	-	-	-
2.10. Panel Temperature Errors	-	-	-	-	-	-	-	-	-	-	-	-	-
2.11. PLC & Control System	0.1%	-	0.5%	-	-	0.8%	-	-	-	-	-	-	0.2%
2.12. Hydraulic Brake & Rotor Lock System	-	-	-	-	-	-	-	-	-	-	-	-	-
2.13. Wind Vane & Anemometer System	-	-	-	-	-	-	-	-	-	-	-	-	-
2.14. Data Logger Error	-	-	-	-	-	-	-	-	-	-	-	-	-
2.15. Blade Issue	7.8%	-	-	-	-	-	-	-	-	-	-	-	0.6%
2.16. VCB & Transformer System	-	2.0%	1.2%	0.8%	-	4.5%	1.2%	5.2%	-	-	-	-	1.3%
2.17. Manual Shutdown	-	-	-	-	1.1%	-	-	-	-	-	-	-	0.3%
2.18. Internal Grid Outages	0.2%	3.2%	0.8%	0.5%	-	0.5%	1.0%	1.0%	-	-	-	-	0.9%
2.19. PSS Outages	-	0.1%	-	0.5%	-	0.6%	-	-	-	-	-	-	0.1%
2.20. MBD	-	-	-	-	-	-	-	-	-	-	-	-	-
2.21. Others	-	-	-	-	-	-	-	-	-	-	-	-	-
3) Power Curtailment (%)	-	-	-	0.2%	-	-	-	-	-	-	-	-	0.0%
4) Power Curve Performance (%)	0.3%	-0.1%	0.0%	0.0%	-0.1%	-0.2%	0.1%	-0.3%	-	-	-	-	-0.0%
5) External Grid (%)	1.3%	2.5%	3.5%	1.2%	1.8%	3.5%	1.8%	-	-	-	-	-	2.2%
5.1. External Grid PM	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2. External Grid Outages	1.3%	2.5%	3.5%	1.2%	1.8%	3.5%	1.8%	-	-	-	-	-	2.2%
6) Force Majeure (%)	0.2%	3.2%	2.3%	2.8%	-	-	-	-	-	-	-	-	1.3%







# WTG Performance Assessment

Date Period

Multiple selections

State,District,Site,Sec...All

Customer NameAll

WTG ModelAll

Turbine CodeGP16

## WTG Performance Assessment Report

Site	: Hassan South	WTG No.				: GP16	WTG Model				: S 82 V3				
Performance in Glance		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	YTD
Estimated gen. (LU)		26.03	29.68	30.41	29.08	24.90	24.02	24.43	23.35	32.36	23.90	23.70	48.00	26.05	365.90
Actual gen. (LU)		25.24	27.00	27.82	27.12	24.04	22.25	22.83	21.99	22.79	21.74	16.44	21.57	24.57	305.39
Estimated Vs. Actual (%)		-3.0%	-9.1%	-8.5%	-6.7%	-3.5%	-7.4%	-6.5%	-5.8%	-29.6%	-9.0%	-30.7%	-55.1%	-5.7%	-16.5%
Total Loss (%)		3.0%	9.1%	8.5%	6.7%	3.5%	7.4%	5.5%	5.7%	6.1%	9.0%	26.4%	3.2%	5.7%	7.3%
1) Scheduled Outages (%)		2.2%	0.9%	1.2%	1.9%	1.2%	1.9%	2.2%	1.3%	0.7%	0.4%	1.5%	1.3%	0.7%	1.3%
1.1. WTG PM		2.2%	0.9%	1.2%	1.2%	1.1%	1.5%	1.8%	1.2%	0.4%	0.4%	1.4%	0.6%	0.4%	1.1%
1.2. Internal Grid PM		-	-	-	0.6%	0.2%	0.4%	0.4%	0.1%	0.1%	-	-	-	0.3%	0.2%
1.3. PSS PM		-	-	-	-	-	-	-	-	0.2%	-	0.1%	0.7%	-	0.1%
2) Un Scheduled Outages (%)		3.6%	10.2%	10.1%	8.7%	6.0%	7.9%	4.8%	7.4%	6.6%	11.3%	6.3%	3.1%	3.6%	6.7%
2.1. Lubrication System		-	-	2.1%	-	-	-	-	-	-	-	0.0%	0.4%	0.1%	0.2%
2.2. DFIG/ Converter/ Turbine Electrical System/ SFS System		-	1.5%	2.4%	0.9%	2.0%	2.7%	-	0.3%	1.0%	2.4%	0.8%	0.1%	0.5%	1.1%
2.3. Gear Box System		-	-	0.2%	-	-	-	2.0%	0.4%	0.9%	-	1.7%	-	-	0.4%
2.4. Generator System		-	0.4%	0.9%	0.5%	-	-	-	-	0.1%	0.5%	1.0%	-	0.1%	0.3%
2.5. Main Bearing		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6. Pitch System		-	0.9%	1.7%	4.1%	1.7%	3.7%	-	0.3%	1.5%	4.5%	1.4%	0.3%	0.7%	1.5%
2.7. Yaw System		-	0.6%	-	0.8%	0.0%	0.1%	0.7%	0.2%	0.3%	2.4%	0.4%	0.1%	0.1%	0.4%
2.8. Vibration & Oscillation		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.9. Turbine Rotor System		-	-	-	-	-	-	-	0.0%	-	-	-	-	-	0.0%
2.10. Panel Temperature Errors		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.11. PLC & Control System		-	-	0.0%	0.6%	0.7%	-	0.2%	-	0.2%	0.4%	0.3%	0.7%	0.1%	0.3%
2.12. Hydraulic Brake & Rotor Lock System		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.13. Wind Vane & Anemometer System		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.14. Data Logger Error		-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.15. Blade Issue		-	-	2.1%	-	-	-	-	-	0.6%	-	-	-	-	0.2%
2.16. VCB & Transformer System		0.9%	-	-	-	0.5%	-	-	0.3%	0.4%	0.2%	-	-	0.2%	0.2%
2.17. Manual Shutdown		2.7%	6.7%	0.6%	1.7%	1.2%	1.5%	1.1%	4.4%	0.5%	0.3%	0.3%	0.7%	0.6%	1.7%
2.18. Internal Grid Outages		-	-	-	-	-	-	0.9%	1.5%	1.0%	0.6%	0.3%	0.7%	0.5%	0.4%
2.19. PSS Outages		-	-	-	-	-	-	-	-	-	-	-	-	0.7%	0.0%
3) Power Curtailment (%)		-	-	0.0%	0.0%	-	0.0%	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4) Power Curve Performance (%)		-2.7%	-2.0%	-2.7%	-3.8%	-4.0%	-3.2%	-3.4%	-3.5%	-2.6%	-4.5%	-3.2%	-1.3%	0.2%	-2.7%
5) External Grid (%)		-	-	-	-	-	-	0.8%	-	1.1%	1.3%	0.3%	0.1%	0.8%	0.3%
5.1. External Grid PM		-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2. External Grid Outages		-	-	-	-	-	-	0.8%	-	1.1%	1.3%	0.3%	0.1%	0.8%	0.3%
6) Force Majeure (%)		-	-	-	-	0.2%	0.7%	1.1%	0.5%	0.4%	0.6%	21.5%	-	0.3%	1.6%



# WTG Performance Assessment

Date Period

2022-23

Previous Period

2021-22

State,District,Site,Sec...

All

Customer Name

Polycab India Ltd

WTG Model

All

Turbine Code

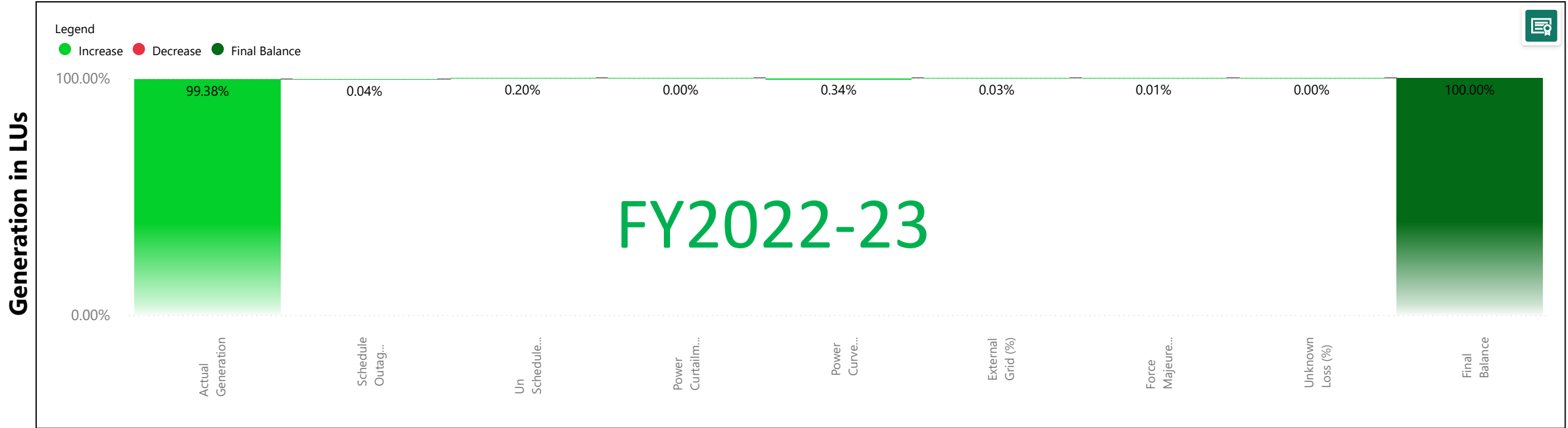
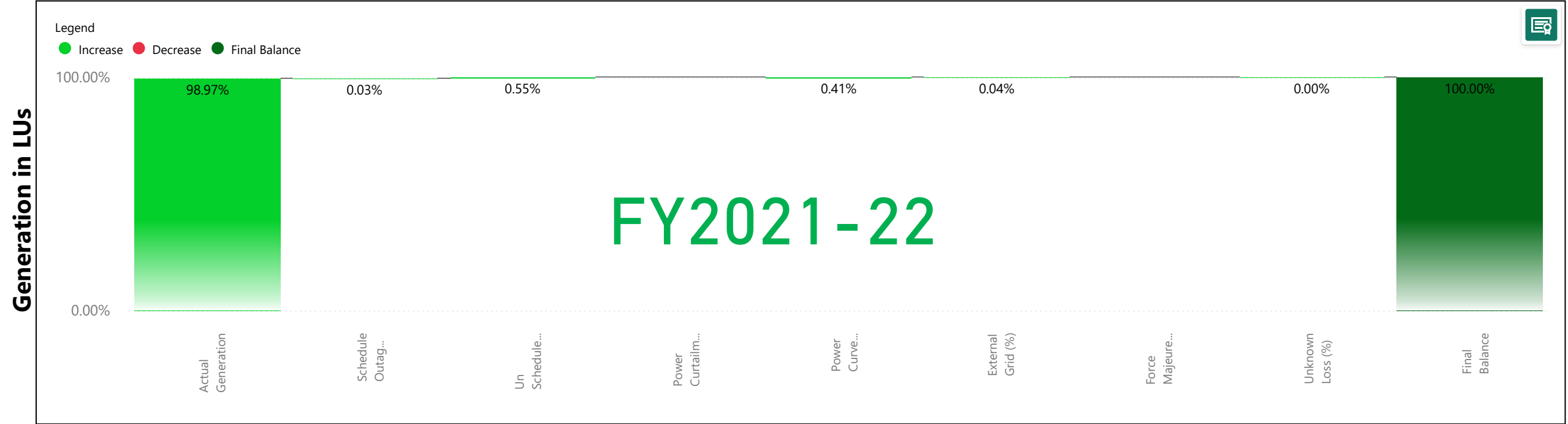
VM04

## WTG Performance Assessment Report

Site : Varsamedi

WTG No. : VM04

WTG Model : S 82 V3





# WTG Performance Assessment - Losses

Date Period

2022-23

Previous Period

2019-20

State,District,Site,Sec...

All

Customer Name

All

WTG Model

All

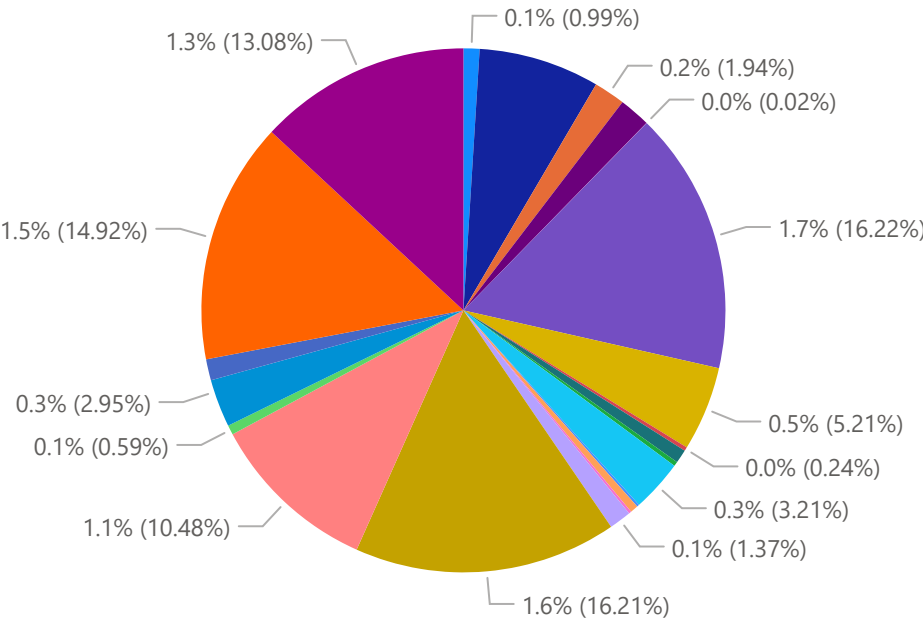
Turbine Code

All

## WTG Performance Assessment Report

Generation in LUs

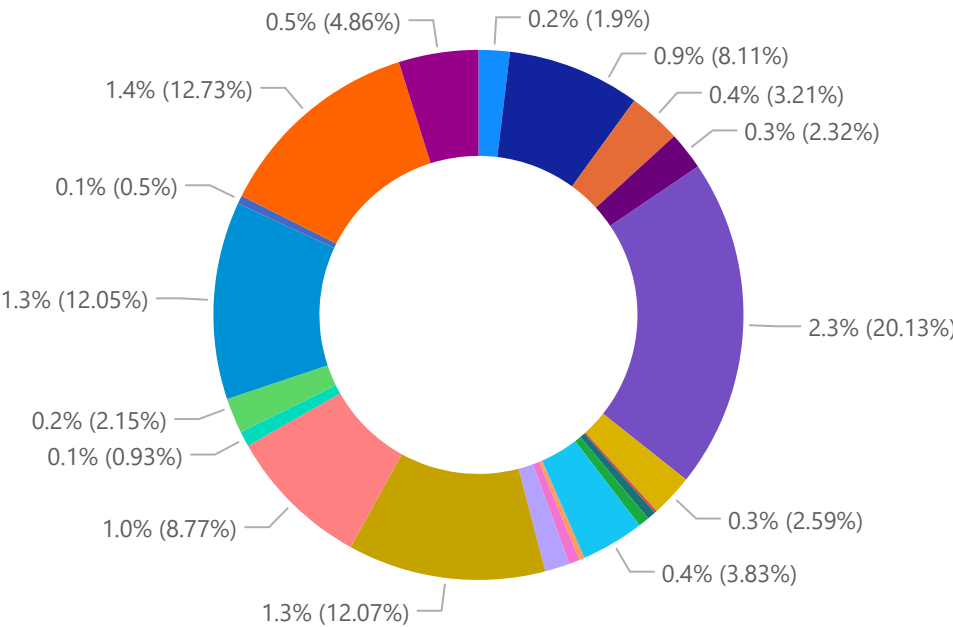
FY2019-20



- 2.1. Lubrication System
- 2.2. DFIG/ Converter/ Turbine Electrical System/ SFS System
- 2.3. Gear Box System
- 2.4. Generator System
- 2.5. Main Bearing
- 2.6. Pitch System
- 2.7. Yaw System
- 2.8. Vibration & Oscillation
- 2.9. Turbne Rotor System
- 2.10. Panel Temperature Errors
- 2.11. PLC & Control System
- 2.12. Hydraulic Brake & Rotor Lock System

Generation in LUs

FY2022-23



- 2.1. Lubrication System
- 2.2. DFIG/ Converter/ Turbine Electrical System/ SFS System
- 2.3. Gear Box System
- 2.4. Generator System
- 2.5. Main Bearing
- 2.6. Pitch System
- 2.7. Yaw System
- 2.8. Vibration & Oscillation
- 2.9. Turbne Rotor System
- 2.10. Panel Temperature Errors
- 2.11. PLC & Control System
- 2.12. Hydraulic Brake & Rotor Lock System